



*Converting Waste Into Resources*

# **Recycled Water Program**

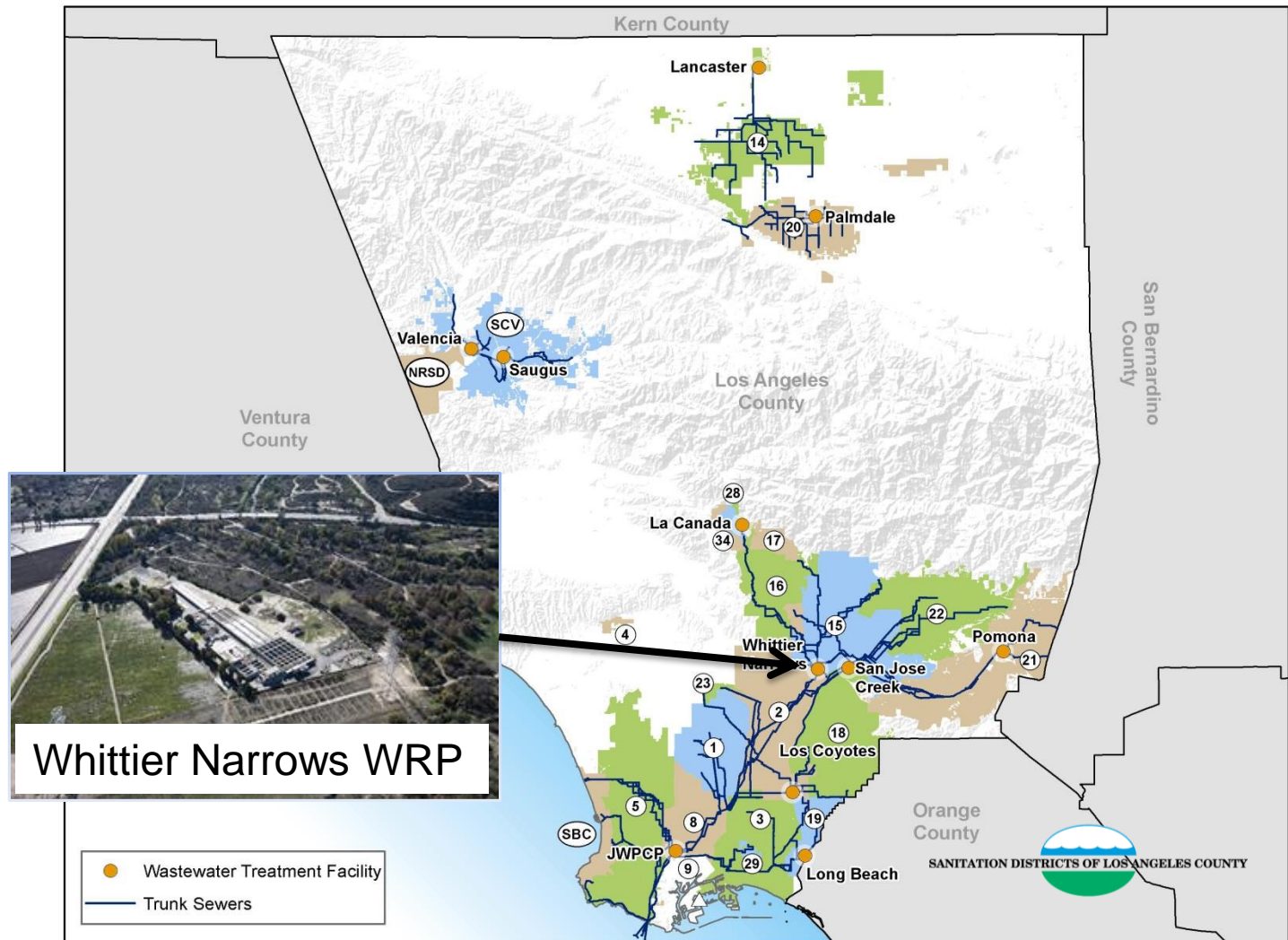
**Grace Robinson Hyde**

**August 31, 2017**





# Wastewater system structured to maximize water reuse





# LACSD partners with cities and water agencies



CITY OF  
**LONG BEACH**

City of  
**CYPRESS**  
California

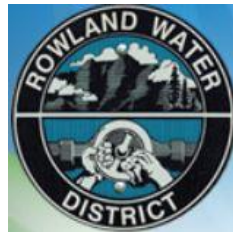


**City of Industry**

**SAN GABRIEL VALLEY  
WATER COMPANY**



 **UPPER DISTRICT**  
UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT



 **CITY OF PALMDALE**  
*a place to call home*

City of Lakewood, California

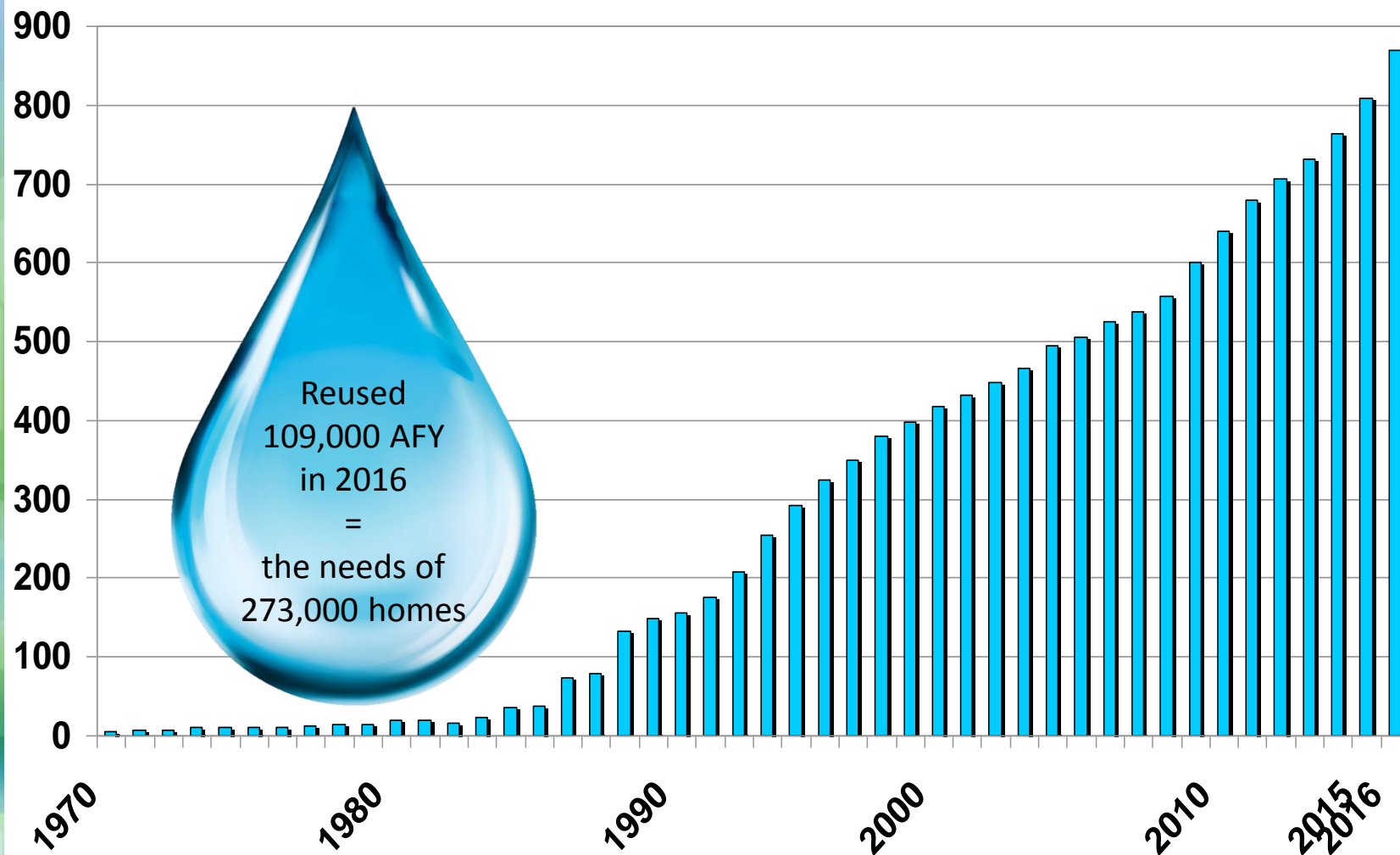


**SAN GABRIEL VALLEY  
MUNICIPAL  
WATER DISTRICT**





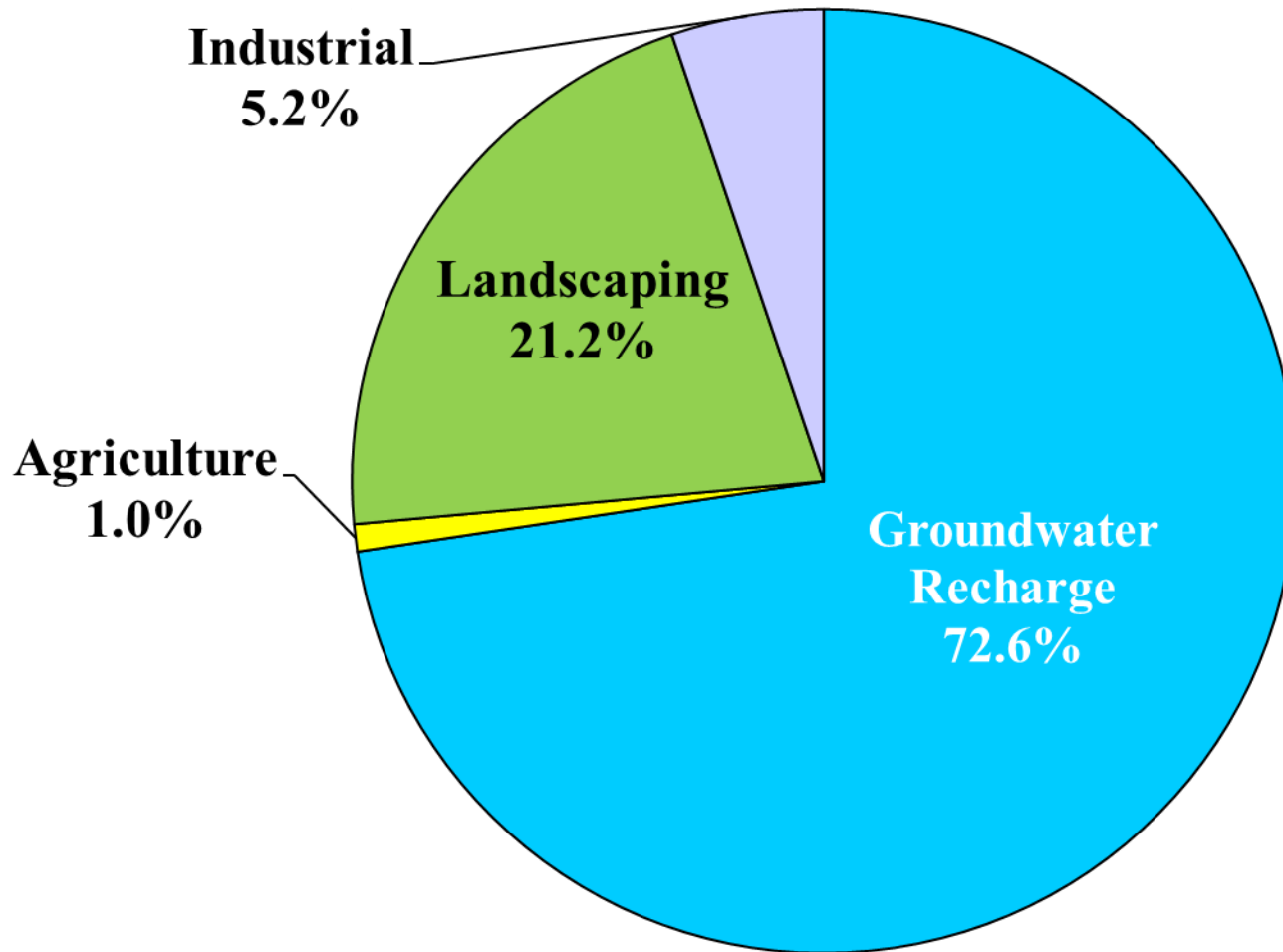
# Recycled water is used at almost 900 sites







# Groundwater recharge is highest volume use



**JOS Recycled Water Use Distribution, 2016**



# Two existing recharge programs are in place



Montebello Forebay



LVL Water Treatment Facility







# Potential Project at JWPCP

- Currently disposing effluent to ocean
- Ability to recycle a large portion of JWPCP effluent
- Current technology makes a JWPCP project viable
- Regional project to maximize benefits







# Metropolitan Water Districts and LACSD Partnership



**Regional Recycled Water**  
Advanced Purification Center

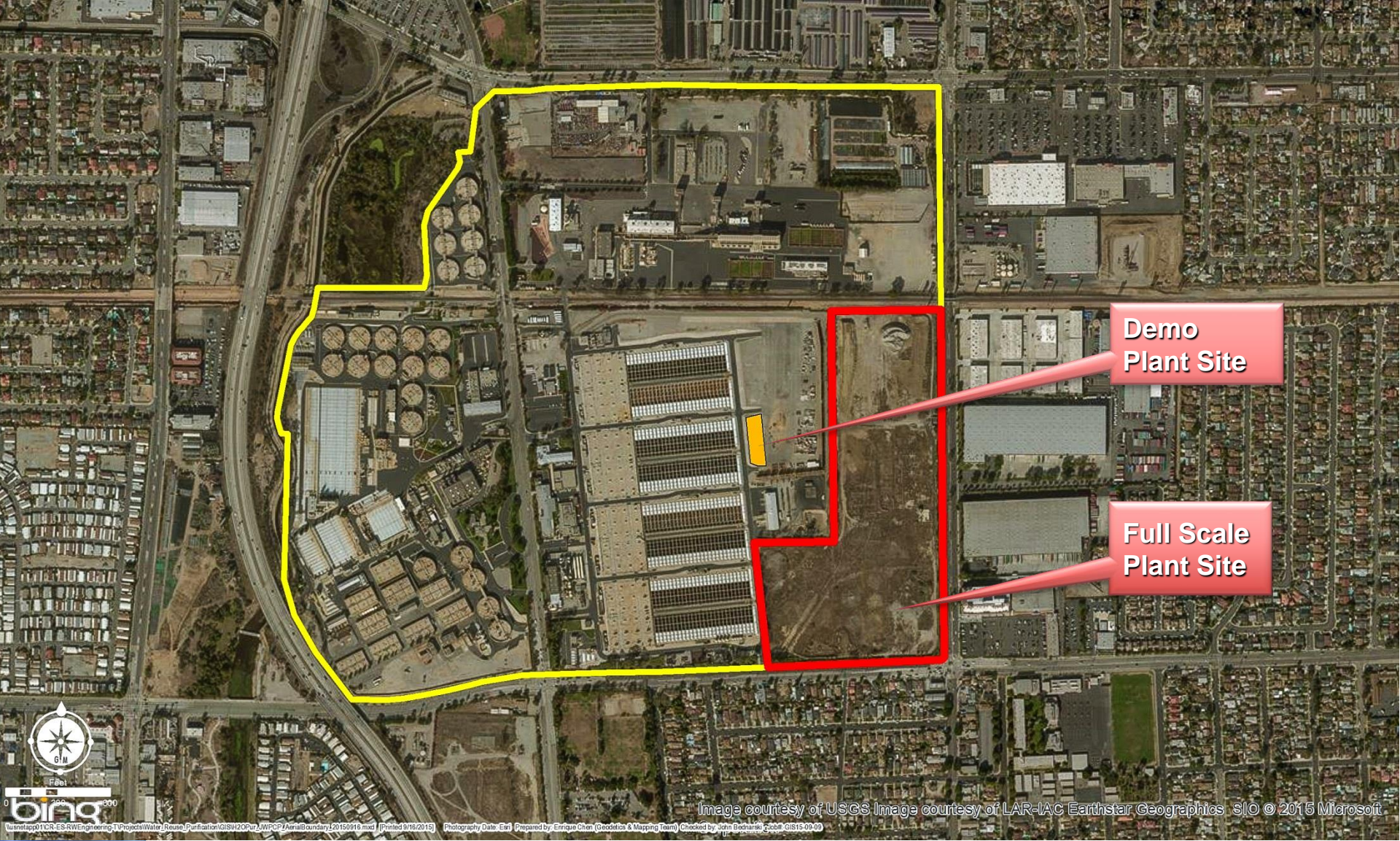
SANITATION DISTRICTS OF LOS ANGELES COUNTY







# Potential Site Location at JWPCP



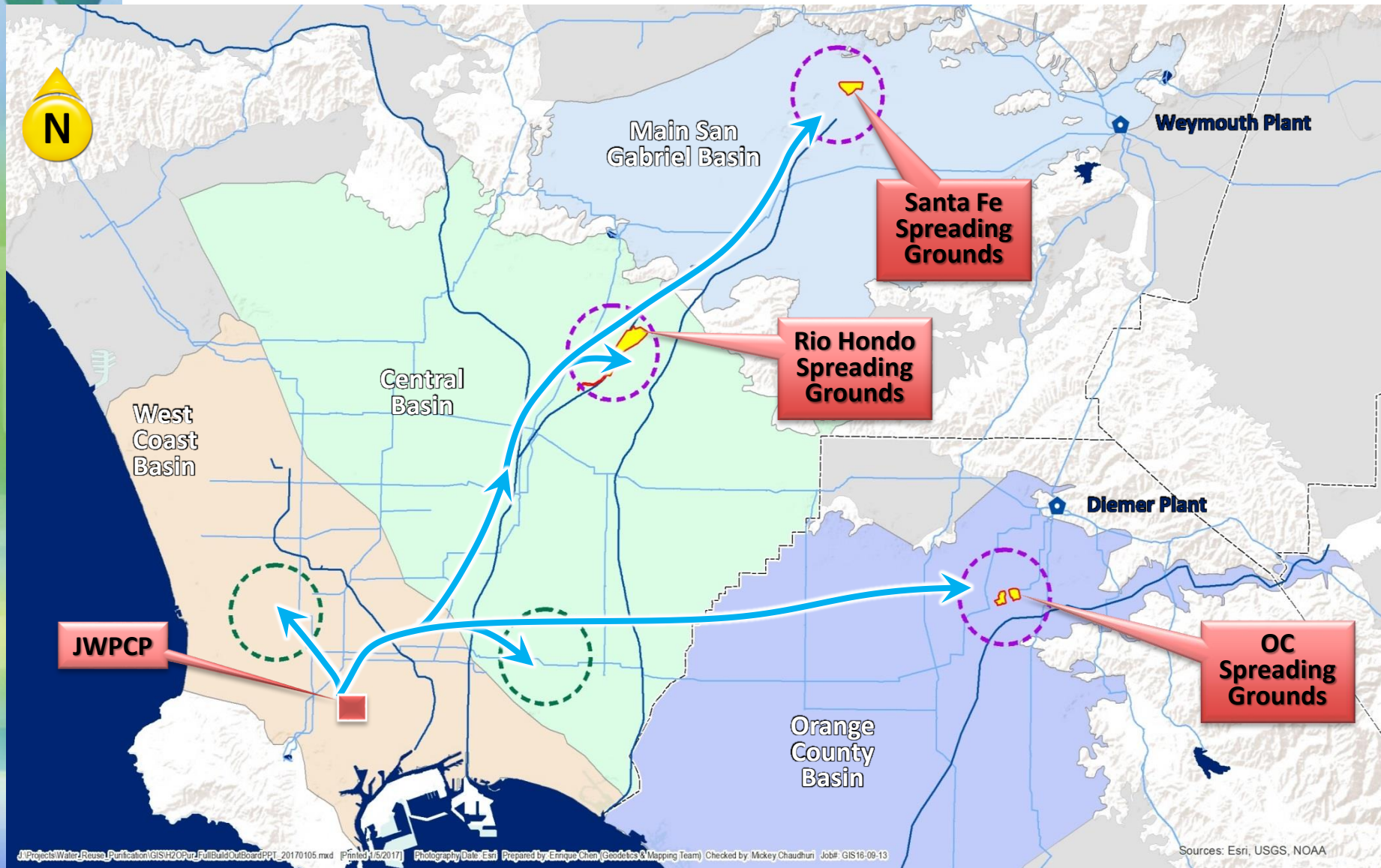
\\nasmap01\CR\_ES&W\Engineering\Projects\Water\_Reuse\_Purification\GIS\H2OPur\_JWPCP\AerialBoundary\20150919.mxd | Printed 9/16/2015 | Photography Date: Ear | Prepared by: Enrique Chen (Geodetic & Mapping Team) | Checked by: John Deschamps (GIS) 9/15/2015

Image courtesy of USGS Image courtesy of LAR-IAC Earthstar Geographics SIO © 2015 Microsoft





# Potential Full Program up to 150 MGD







# Next Steps

- Complete construction, start-up and operation of 0.5 MGD Demonstration Plant (2018-2019)
- Facilities planning, engineering and additional groundwater modeling (mid-2018)
- Develop institutional arrangements
- Public outreach



# **Recycled water will continue to be a key focus for the Sanitation Districts**

